

## Specifications:

|               |                  |
|---------------|------------------|
| Gene:         | hS1P5/EDG-8      |
| Accession:    | NP_110387        |
| Insert size:  | 1209bp           |
| Package size: | 10µg at 0.2µg/µL |

## hS1P5/EDG-8 cDNA Plasmid

**S1PR5 sphingosine-1-phosphate  
receptor 5 [ *Homo sapiens* ]**

**Also known as:** S1P5; Edg-8; SPPR-1; SPPR-2

### Summary:

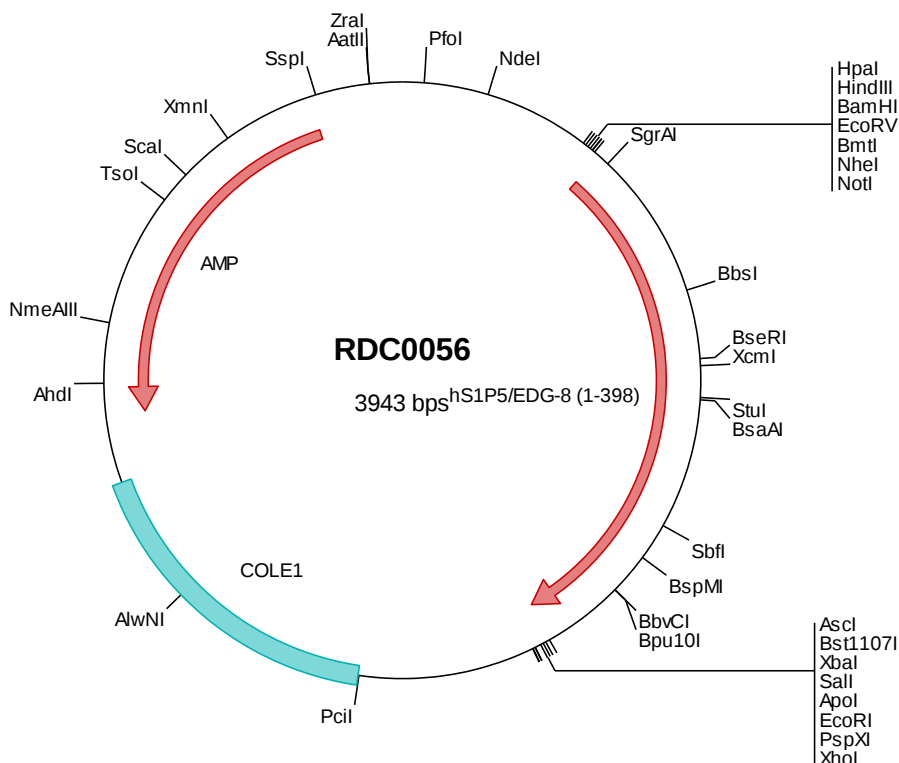
EDG-8 is a G protein-linked seven transmembrane domain spanning receptor that binds lysosphingolipid sphingosine 1-phosphate. EDG-8 is predominantly expressed in peripheral tissues, brain, spleen and peripheral blood leucocytes. It regulates cell proliferation, apoptosis, motility, and neurite retraction. EDG-8 is up-regulated in large granular lymphocytic leukemias and is required for sphingosine 1-phosphate-induced autophagy in human prostate cancer PC-3 cells.

## Description

This shuttle vector contains the complete ORF for the gene of interest, along with a Kozak consensus sequence for optimal translation initiation. It is inserted NotI to AscI. The gene insert is flanked with convenient multiple cloning sites which can be used to easily cut and transfer the gene cassette into your desired expression vector.

## Preparation and Storage

|             |                                                                     |
|-------------|---------------------------------------------------------------------|
| Formulation | cDNA is provided in 10 mM Tris-Cl, pH 8.5                           |
| Shipping    | Ships at ambient temperature                                        |
| Stability   | 1 year from date of receipt when stored at -20°C to -80°C           |
| Storage     | Use a manual defrost freezer and avoid repeated freeze-thaw cycles. |





## > RDC0056 Plasmid DNA Sequence

```
1   tcgcgcggtt cggatgatgac ggtgaaaacc tctgacacat gcagctcccg gagacggtca cagcttgtct gtaagcggat gccgggagca gacaagcccg
101  tcagggcgcg tcagcgggtg ttggcgggtg tcggggctgg cttactatg cggcatcaga gcagattgta ctgagagtgc accatatgcg gtgtgaaata
201  ccgcacagat gcgtaaggag aaaataccgc atcaggcgcc attcgccatt caggctgcgc aactgttggg aaggcgcatc ggtgcgggcc tcttcgctat
301  tacgccagct ggcgaagggt ggaatgtctg caagcgattt aagtttggta acgccagggt tttccagtc acgacgttgt aaaacgacgg ccagtgaatt
401  ggagacgtgt taacaagctt ggaaccgata tcgctagcgc ggccgcacac atggagtccg ggtctgtccg gccggcgccg gtgagcgagg tcatcgctct
501  gcattacaac tacacggcca agctccggcg tgccgcgtac cagccgggtg ccggcctcg cgcgcacgco gtggtgtgco tggcgggtgt cgccttcaac
601  gtgctagaga atctagccgt gttgttgggt ctcggacgcc acccgcgctt ccacgctccc atgttcttgc tcttgggcag cctcacgttg tcggatctgc
701  tggcaggcgc cgcctacgcc gccaacatcc tactgtccgg gccgctcacg ctgaaactgt cccccgcgt ctggttcgca cgggaggag gctctctgt
801  ggcaactcact gcgtccgtgc tgagcctcct ggccatcgcg ctggagcgca gctcaccat ggccgcacag ggcccgcgcc cgtctccag tcggggggcg
901  acgctggcga tggcagcgcc gccctggggc gtgtcgtctg tctcgggct cctgccagcg ctgggtgga attgcctggg tcgcctggac gcttgcctca
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1401 cctgcgctcg gtctgtcgcg gacgcaactc ctgcggcaga gaccgagtg gctccagca gtccggcgagc gcggctgagg cttccggggg cctgcgccc
1501 tgccctgccc cgggccttga tgggagcttc agcggctcgg agcgtctatc gccccagcgc gacgggctgg acaccagcgg ctccacaggg agccccgggt
1601 caccacacgc cgcggcgact ctggtatcag aaccggctgc agactgaggg ggcgcagtat actctagagt cgacaccggg ggaattctct gagcgtcgt
1701 ctctagcttg gcgtaatcat ggtcatagct gtttctgtg tgaattgtt atccgctcac aattccacac aacatacag ccggaagcat aaagtgtaaa
1801 gcctggggtg cctaataagt gagctaactc acattaattg cgttgccgct actgcccgtt tccagctcgg gaaacctgtc gtgccagctg cattaatgaa
1901 tcggccaacg cgcggggaga ggcggtttgc gtattggcg cttctccgct tctcgtctca ctgactcgct gcgctcggtc gttcgggtgc ggcgagcgg
2001 atcagctcac tcaaaaggcg taatacgggt atccacagaa tcaggggata acgcaggaaa gaacatgtga gcaaaaagcc agcaaaaggg caggaaccgt
2101 aaaaaggccc cgttgctggc gtttttccat aggcctccgc cccctgacga gcatcacaaa aatcgacgct caagtcagag gtggcgaaac ccgacaggac
2201 tataaagata ccaggcgttt ccccttgaaa gctcctctgt gcgctctcct agttcggtgt gttccgacct tgccgcttac cggatactg tccgcctttc
2301 aagcgtggcg ctttctcaat gctcagctg taggtatctc agttcggtgt aggtcgttgc ctccaaagctg acgaaccccc cgttcagccc
2401 gaccgctcgc ctttatccgg taactatcgt cttgagtcca acccggttaag acacgactta tcgccactgg cagcagccac tggtaacagg attagcagag
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3101 caactttatc cgcctccatc cagtctatta attgttgcg ggaagctaga gtaagtagtt cgccagttaa tagtttgcg aacgttgttg ccattgctac
3201 aggcatcggt gtgtcacgct cgtcgttttg tatggcttca ttcagctcgg gttcccaacg atcaaggcga gttacatgat ccccatgtt gtgcaaaaa
3301 gcggttagct ccttcggtcc tccgatcgtt gtcagaagta agttggccgc agtggtatca ctcatggta tggcagcact gcataattct cttactgtca
3401 tgccatccgt aagatgcttt tctgtgactg gtgagtactc aaccaagtca ttctgagaat agtgtatgcg gcgaccgagt tgcctctgcc cggcgtcaat
3501 acgggataat accgcgccac atagcagaac tttaaaagtg ctcatcatt gaaaacgttc ttcggggcga aaactctcaa ggatcttacc gctgttgaga
3601 tccagttcga tgtaaccacac tcgtgcaccc aactgatctt cagcatcttt tactttcacc agcgtttctg ggtgagcaaa aacaggaagg caaaatgcc
3701 caaaaaagg aaataaggcg acacggaaat gttgaatact ctactctctc ctttttcaat attattgaag catttatcag ggttatgtc tcatgacgg
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3901 acattaacct ataaaaatag gcgtatcacg aggccttttc gtc
```

## > RDC0056 Translated Insert Sequence

```
1   mesgllrpap vsevvlhyn ytgklrgary qpqaglrada vvclavcafi vlenlavllv lgrhprfhap mfilllsltl sdllagaaya anillsgplt
101  lklspalwfa reggvfvalt asvlsllaia lersltmarr gpapvssrgr tlamaaaawg vslllgllpa lgwncigrld acstvlplya kayvlfcvla
201  fvgilaaica lyariycqvr anarrlparp gtagtsttra rrkprslall rtlsvlllaf vacwgpflfl lldvacpar tcpvllqadp flglamansl
301  lnpiiytltn rdrlhallrl vccgrhscgr dpsgsgqsas aaeasggllr clppglgdsf sgsersspqr dgltdsgstg spgaptaaart lvsepaad
```